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(54) POLYMERIZATION OF ALPHA-OLEFIN

(57)Abstract:

PURPOSE: To make it possible to perform polymerization with a higher catalyst activity without detriment to the stereoregularity of the obtained polymer, by polymerizing an α -olefin by using a catalyst formed by contacting a highly active solid titanium catalyst component with other catalyst components in an inert medium in the absence of any α -olefin.

CONSTITUTION: An α -olefin is polymerized by using a catalyst formed by contacting a highly active solid titanium catalyst component (A) essentially consisting of magnesium, titanium, a halogen and an electron donor with a catalyst component of an organometallic compound (B) of a Group IWIII metal of the periodic table, an organohalogen compound catalyst component (C) and a catalyst component (D) of an organosilicon compound or an amine of a high steric hindrance in an inert medium in the absence of any α -olefin. Examples of component (C) include organohalogen compounds comprising a 1W20C hydrocarbon group and a halogen group such as chlorine, bromine, iodine or fluorine.

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